AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (Currently amended) An isolated DNA molecule comprising a DNA sequence encoding a BMP receptor protein, wherein the DNA sequence comprises nucleotides 61 to 1656 of SEQ ID NO:1.
 - 2-3. Cancelled.
- 4. (Currently amended) The An isolated DNA molecule comprising a DNA sequence encoding a BMP receptor protein, wherein the DNA sequence comprises of claim 1, wherein said DNA sequence is selected from the group consisting of:
 - [[(a)]] nucleotides encoding for amino acids 24 to 532 of SEQ ID NO: 2[[;]]
 - (b) nucleotides encoding for amino acids 8 to 502 of SEQ ID NO: 4; and
 (c) sequences which hybridize to any of (a) or (b) under stringent
 hybridization conditions and encode a BMP receptor protein with the ability to
 bind to BMP in a binding assay.
 - 5. Cancelled.
- 6. (Currently amended) An isolated host cell transformed with the DNA molecule of claim 1.
 - 7. Cancelled.
- 8. (Currently amended) An isolated host cell transformed with the DNA molecule of claim 4.
 - 9. Cancelled.

- 10. (Currently amended) An isolated DNA molecule having a sequence encoding a truncated <u>BMP</u> BUT receptor protein which is characterized by the ability to bind to BMP-2 or BMP-4 in a binding assay, said DNA molecule comprising a DNA sequence selected from the group consisting of:
 - (a) nucleotide 61 to 507 of SEQ ID NO: 1;
 - (b) nucleotides encoding amino acids 1 to 149 of SEQ ID NO:2; and
 - (c) <u>nucleotides encoding amino acids 24 to 149 of SEQ ID NO:2</u> nucleotide 247 to 618 of SEQ ID NO:3;
 - (d) nucleotides encoding amino acids 8 to 124 of SEQ ID NO:4; and

 (e) naturally occurring allelic sequences and equivalent degenerativecodon sequences of (a)[[,]] or (b), (c), or (d).
- 11. (Currently amended) An isolated host cell transformed with the DNA molecule of claim 10.
- 12. (Original) A vector comprising a DNA molecule of claim 10 in operative association with an expression control sequence therefor.
- 13. (Currently amended) A method for producing a purified truncated <u>BMP</u>

 BUT receptor protein, said [[.]] method comprising the steps of:
 - (a) culturing in a culture medium a host cell transformed with a DNA sequence according to claim 10, comprising a nucleotide sequence encoding a truncated BMP receptor protein; and
 - (b) recovering and purifying said truncated BMP receptor protein from the culture medium.
 - 14-18. Cancelled.

- 19. (Original) A method for producing a truncated BMP receptor protein, said method comprising the steps of:
 - (a) culturing in a culture medium a host cell according to claim 11, comprising a truncated nucleotide sequence encoding the ligand binding domain of a BMP receptor protein; and
 - (b) recovering and purifying said BMP receptor protein from the culture medium.
 - 20-30. Cancelled.
- 31. (Original) An isolated DNA molecule comprising the DNA sequence of CFK1-23a.
 - 32-52. Cancelled.